

## CLAIMS

I/We claim:

- [c1]           1.     A testing apparatus, comprising:  
a testing device for inspecting an object;  
an accumulator for supplying power to said testing device;  
a first terminal for providing signals transferring route between said testing device and the object, and also providing a charging route for said accumulator; and  
a switch to determine status of said testing device, wherein said status includes testing mode or charging mode.
- [c2]           2.     The testing apparatus according to claim 1, further comprising a second terminal.
- [c3]           3.     The testing apparatus according to claim 2, wherein said second terminal electrically connects to ground.
- [c4]           4.     The testing apparatus according to claim 2, wherein said testing device is a multimeter.
- [c5]           5.     The testing apparatus according to claim 2, wherein said testing device is an oscilloscope.
- [c6]           6.     The testing apparatus according to claim 2, wherein said testing device is a process calibrator.
- [c7]           7.     The testing apparatus according to claim 2, wherein said testing device is a process meter.

- [c8]           8.     The testing apparatus according to claim 1, wherein said testing device is a temperature sensor.
- [c9]           9.     The testing apparatus according to claim 1, wherein said testing device is a gaseous detector.
- [c10]          10.    The testing apparatus according to claim 1, wherein said testing device is a fluid sensor.
- [c11]          11.    The testing apparatus according to claim 1, wherein said accumulator is selected from the group consisting of lithium battery, hydrogen-nickel battery, and cadmium-nickel battery.
- [c12]          12.    The testing apparatus according to claim 1, further comprising a display device to show the status of said testing apparatus.
- [c13]          13.    An electricity meter, comprising:  
a meter for inspecting electric characteristic of an object;  
an accumulator for providing power to said meter;  
two terminals for providing electric signals transferring route of said meter  
and charging route of said accumulator;  
a switch to determine status of said meter, wherein said status includes  
testing mode or charging mode; and  
a display device for displaying the status of said meter.
- [c14]          14.    The electricity meter according to claim 13, wherein said meter is a multifunction meter.
- [c15]          15.    The electricity meter according to claim 13, wherein said meter is an oscilloscope.

- [c16]            16.    An apparatus charged via signal terminals, said apparatus comprising:
- an electronic device;
  - an accumulator for providing electric power to said electric device;
  - a terminal providing signals transferring route of said electronic device and a charging route for said accumulator; and
  - a switch to determine status of said electronic device, wherein said status includes processing mode or charging mode.
- [c17]            17.    The apparatus according to claim 16, wherein said electronic device is a mobile communicating device.
- [c18]            18.    The apparatus according to claim 16, wherein said electronic device is a personal digital assistant.
- [c19]            19.    The apparatus according to claim 16, wherein said accumulator is selected from the group consisting of lithium battery, nickel-metal-hydride battery, and nickel-cadmium battery.
- [c20]            20.    The apparatus according to claim 16, wherein said switch detects said electronic device in processing mode or in charging mode automatically.
- [c21]            21.    The apparatus according to claim 20, further comprising a display device for displaying the status of said electronic device.